Preliminary Classification:

Proposed Class:

Subclass:

NOTE: "All applicants are requested to include a preliminary classification on newly filed patent applications. The preliminary classification, preferably class and subclass designations, should be identified in the upper right-hand corner of the letter of transmittal accompanying the application papers, for example 'Proposed Class 2, subclass 129.' " M.P.E.P. § 601, 7th ed.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Box Patent Application Assistant Commissioner for Patents Washington, D.C. 20231

NEW APPLICATION TRANSMITTAL

Transmitted herewith for filing is the patent application of

Inventor(s):

Jan HIRISIMÄKI

WARNING: 37 C.F.R. § 1.41(a)(1) points out:

"(a) A patent is applied for in the name or names of the actual inventor or inventors.

"(1) The inventorship of a nonprovisional application is that inventorship set forth in the oath or declaration as prescribed by § 1.63, except as provided for in § 1.53(d)(4) and § 1.63(d). If an oath or declaration as prescribed by § 1.63 is not filed during the pendency of a nonprovisional application, the inventorship is that inventorship set forth in the application papers filed pursuant to § 1.53(b), unless a petition under this paragraph accompanied by the fee set forth in § 1.17(i) is filed supplying or changing the name or names of the inventor or inventors."

For (title):

Improving the Transmission Performance of a Transport

Layer Protocol Connection

CERTIFICATION UNDER 37 C.F.R. § 1.10*

(Express Mail label number is mandatory.) (Express Mail certification is optional.)

I hereby certify that this New Application Transmittal and the documents referred to as attached therein are being deposited with the United States Postal Service on this date Nov. 10, 2003, in an envelope as "Express Mail Post Office to Addressee," mailing Label Number EV-3037120.79 US, addressed to the: Assistant Commissioner for Patents, Washington, D.C. 20231.

Margery B. Hood

(type or print name of person mailing paper)

Signature of person mailing paper

WARNING: Certificate of mailing (first class) or facsimile transmission procedures of 37 C.F.R. § 1.8 cannot be used to obtain a date of mailing or transmission for this correspondence.

*WARNING: Each paper or fee filed by "Express Mail" must have the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 C.F.R. § 1.10(b).

"Since the filing of correspondence under § 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will not be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

(New Application Transmittal [4-1]—page 1 of 11)

1. Type of Application

This new application is	s fo	or a(n)
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(check one applicable item below)

×	Original (nonprovisional)
	Design
	☐ Plant
WARNING	Do not use this transmittal for a completion in the U.S. of an International Application under 35 U.S.C. § 371(c)(4), unless the International Application is being filed as a divisional, continuation or continuation-in-part application.
WARNING	Do not use this transmittal for the filing of a provisional application.
T	one of the following 3 items apply, then complete and attach ADDED PAGES FOR NEW APPLICATION RANSMITTAL WHERE BENEFIT OF A PRIOR U.S. APPLICATION CLAIMED and a NOTIFICATION I PARENT APPLICATION OF THE FILING OF THIS CONTINUATION APPLICATION.
	Divisional.
	Continuation.
	Continuation-in-part (C-I-P).

2. Benefit of Prior U.S. Application(s) (35 U.S.C. §§ 119(e), 120, or 121)

NOTE: A nonprovisional application may claim an invention disclosed in one or more prior filed copending nonprovisional applications or copending international applications designating the United States of America. In order for a nonprovisional application to claim the benefit of a prior filed copending nonprovisional application or copending international application designating the United States of America, each prior application must name as an inventor at least one inventor named in the later filed nonprovisional application and disclose the named inventor's invention claimed in at least one claim of the later filed nonprovisional application in the manner provided by the first paragraph of 35 U.S.C. § 112. Each prior application must also be:

- (i) An international application entitled to a filing date in accordance with PCT Article 11 and designating the United States of America; or
 - (ii) Complete as set forth in § 1.51(b); or
- (iii) Entitled to a filing date as set forth in § 1.53(b) or § 1.53(d) and include the basic filing fee set forth in § 1.16; or
- (iv) Entitled to a filing date as set forth in § 1.53(b) and have paid therein the processing and retention fee set forth in § 1.21(f) within the time period set forth in § 1.53(f).

37 C.F.R. § 1.78(a)(1).

NOTE: If the new application being transmitted is a divisional, continuation or a continuation-in-part of a parent case, or where the parent case is an International Application which designated the U.S., or benefit of a prior provisional application is claimed, then check the following item and complete and attach ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

WARNING: If an application claims the benefit of the filing date of an earlier filed application under 35 U.S.C. §§ 120, 121 or 365(c), the 20-year term of that application will be based upon the filing date of the earliest U.S. application that the application makes reference to under 35 U.S.C. §§ 120, 121 or 365(c). (35 U.S.C. § 154(a)(2) does not take into account, for the determination of the patent term, any application on which priority is claimed under 35 U.S.C. §§ 119, 365(a) or 365(b).) For a c-i-p application, applicant should review whether any claim in the patent that will issue is supported by an earlier application and, if not, the applicant should consider canceling the reference to the earlier filed application. The term of a patent is not based on a claim-by-claim approach. See Notice of April 14, 1995, 60 Fed. Reg. 20,195, at 20,205.

(New Application Transmittal [4-1]—page 2 of 11)

WAR	NING	holiday within the provisional application	by of pendency of a provisional application falls on a Saturday, Sunday, or Federal the District of Columbia, any nonprovisional application claiming benefit of the cation must be filed prior to the Saturday, Sunday, or Federal holiday within the hibia. See 37 C.F.R. § 1.78(a)(3).
		tion(s). Enclose	cation being transmitted claims the benefit of prior U.S. applicated are ADDED PAGES FOR NEW APPLICATION TRANSMITTAL FIT OF PRIOR U.S. APPLICATION(S) CLAIMED.
3. P	aper	Enclosed	
A.	(De	ign) Application	
	9	Pages of spe	ecification
	{{2}}	_Pages of clai	ms
	7	_Sheets of dra	awing
WAF	NING	filing a patent ap smooth, and no drawings are ne the corrected or	r original drawings. A high quality copy of the drawings should be supplied when oplication. The drawings that are submitted to the Office must be on strong, white, n-shiny paper and meet the standards according to § 1.84. If corrections to the cessary, they should be made to the original drawing and a high-quality copy of iginal drawing then submitted to the Office. Only one copy is required or desired on proposed then-new 37 C.F.R. § 1.84, see Notice of March 9, 1988 (1990 O.G.
NOT	in th or	entor's name, doo Office is unable to	f provided, should include the application number or the title of the invention, cket number (if any), and the name and telephone number of a person to call if a match the drawings to the proper application. This information should be placed sheet of drawing a minimum distance of 1.5 cm. (% inch) down from the top of F.R. § 1.84(c)).
			(complete the following, if applicable)
			drawing(s) are photograph(s). Three (3) sets of photographs and O ACCEPT PHOTOGRAPH(S) AS DRAWING(S)" are attached. 37 b).
			drawing(s) are in color. Three (3) sets of color drawings and a D ACCEPT COLOR DRAWING(S)" are attached. 37 C.F.R. and 1.84(b).
	X	formal	
		informal	
В.	Oth	er Papers Encl	osed
		_Pages of dec	claration and power of attorney
		_Pages of abs	stract
		_ Other	•
4. A	dditi	onal papers e	nclosed
		Amendment to	claims
		calculating	this applications claims before g the filing fee. (At least one original independent claim must be or filing purposes.)
			claims shown on the attached amendment. (Claims added have abbered consecutively following the highest numbered original

		Preliminary Amendment			
		Information Disclosure Statement (37 C.F.R. § 1.98)			
		Form PTO-1449 (PTO/SB/08A and 08B)			
		Citations			
]	Declaration of Biological Deposit			
C		Submission of "Sequence Listing," computer readable copy and/or amendment pertaining thereto for biotechnology invention containing nucleotide and/or amino acid sequence.			
		Authorization of Attorney(s) to Accept and Follow Instructions from Representative			
]	Special Comments			
	כ	Other			
5. Dec	clar	ration or oath (including power of attorney)			
NOTE:	the by ap, the by be, de- per	newly executed declaration is not required in a continuation or divisional application provided that a prior nonprovisional application contained a declaration as required, the application being filed is all or fewer than all the inventors named in the prior application, there is no new matter in the polication being filed, and a copy of the executed declaration filed in the prior application (showing a signature or an indication thereon that it was signed) is submitted. The copy must be accompanied a statement requesting deletion of the names of person(s) who are not inventors of the application ing filed. If the declaration in the prior application was filed under § 1.47, then a copy of that claration must be filed accompanied by a copy of the decision granting § 1.47 status or, if a nonsigning from under § 1.47 has subsequently joined in a prior application, then a copy of the subsequently ecuted declaration must be filed. See 37 C.F.R. §§ 1.63(d)(1)–(3).			
NOTE:	is c abi	declaration filed to complete an application must be executed, identify the specification to which it directed, identify each inventor by full name including family name and at least one given name, without observiation together with any other given name or initial, and the residence, post office address and puntry or citizenship of each inventor, and state whether the inventor is a sole or joint inventor. 37 i.F.R. § 1.63(a)(1)–(4).			
NOTE:	as p as p is this	The inventorship of a nonprovisional application is that inventorship set forth in the oath or declaration is prescribed by § 1.62, except as provided for in § 1.53(d)(4) and § 1.63(d). If an oath or declaration is prescribed by § 1.63 is not filed during the pendency of a nonprovisional application, the inventorship is that inventorship set forth in the application papers filed pursuant to § 1.53(b), unless a petition under nis paragraph accompanied by the fee set forth in § 1.17(f) is filed supplying or changing the name or names of the inventor or inventors." 37 C.F.R. § 1.41(a)(1).			
		Enclosed			
	١	Executed by			
		(check all applicable boxes)			
	ı	☐ inventor(s).			
	_	legal representative of inventor(s). 37 C.F.R. §§ 1.42 or 1.43.			
	(joint inventor or person showing a proprietary interest on behalf of inventor who refused to sign or cannot be reached.			
	,	☐ This is the petition required by 37 C.F.R. § 1.47 and the statement required by 37 C.F.R. § 1.47 is also attached. See item 13 below for fee.			
×	1	Not Enclosed.			
	the may	ere the filing is a completion in the U.S. of an International Application or where the completion of U.S. application contains subject matter in addition to the International Application, the application or be treated as a continuation or continuation-in-part, as the case may be, utilizing ADDED PAGE RIVEY APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION CLAIMED.			
		Application is made by a person authorized under 37 C.F.R. § 1.41(c) on behalf of all the above named inventor(s).			

(The c	declaration or oath, along with the surcharge required by 37 C.F.R. § 1.16(e) can be filed subsequently).
	Showing that the filing is authorized. (not required unless called into question. 37 C.F.R. § 1.41(d))
6. Inven	itorship Statement
WARNING	G: If the named inventors are each not the inventors of all the claims an explanation, including the ownership of the various claims at the time the last claimed invention was made, should be submitted.
The inv	rentorship for all the claims in this application are:
	The same.
	or
	Not the same. An explanation, including the ownership of the various claims at the time the last claimed invention was made,
	☐ is submitted.
	☐ will be submitted.
7. Lange	uage
A re	on application including a signed oath or declaration may be filed in a language other than English. In English translation of the non-English language application and the processing fee of \$130.00 equired by 37 C.F.R. § 1.17(k) is required to be filed with the application, or within such time as may be set by the Office. 37 C.F.R. § 1.52(d).
Ø	English
	Non-English
	☐ The attached translation includes a statement that the translation is accurate. 37 C.F.R. § 1.52(d).
8. Assig	nment
	An assignment of the invention to
	☐ is attached. A separate ☐ "COVER SHEET FOR ASSIGNMENT (DOCUMENT) ACCOMPANYING NEW PATENT APPLICATION" or ☐ FORM PTO 1595 is also attached.
	will follow.
NOTE: "li ar	f an assignment is submitted with a new application, send two separate letters-one for the application and one for the assignment." Notice of May 4, 1990 (1114 O.G. 77-78).
WARNING	A newly executed "CERTIFICATE UNDER 37 C.F.R. § 3.73(b)" must be filed when a continuation-in-part application is filed by an assignee. Notice of April 30, 1993, 1150 O.G. 62-64.
	This is a ☐ continuation ☐ divisional application and the assignment
	document for the parent application 0 / was filed
	on
	Reel
	Frame
	(New Application Transmittal [4-1]—page 5 of 11)

Country	Appln. No).		Filed
Country	Appln. No).		Filed
Country	Appin. No).		Filed
from which priority is claimed				
is (are) attached.				
will follow.				
NOTE: The foreign application forming the declaration. 37 C.F.R. § 1.55(a) are		aim fo	r priority must	be referred to in the oath or
NOTE: This item is for any foreign priority U.S. application or International Ap § 120 is itself entitled to priority fre PAGES FOR NEW APPLICATION CLAIMED.	oplication from whom a prior foreign	ich thi applic	s application cl ation, then com	aims benefit under 35 U.S.C. aplete item 18 on the ADDED
10. Fee Calculation (37 C.F.R. §	1.16)			
A. 🕅 Regular application				
	CLAIMS AS FI	LED		
Number filed	Number Extra		Rate	Basic Fee 37 C.F.R. § 1.16(a) \$7 9 0.00
Total Claims (37 C.F.R. § 1.16(c)) 33 - 20 =	1.3	×	\$ 18.00	234.00
Independent Claims (37 C.F.R. § 1.16(b))	/	×	\$ 8 & 00	234.00
Multiple dependent claim(s), if any (37 C.F.R. § 1.16(d))		+	\$270.00	
☐ Amendment cancelling ex	ktra claims is	enclo	sed.	
☐ Amendment deleting mult	tiple-depender	ncies	is enclosed	
☐ Fee for extra claims is no	ot being paid	at thi	s time.	
NOTE: If the fees for extra claims are not pa prior to the expiration of the time notice of fee deficiency. 37 C.F.R.	period set for resp			
Filing (Fee Calculatio	n	•	\$ 1,090.00
B. Design application (\$310.00—37 C.F.R. § 1.	16(f))			• 1
Filing I	Fee Calculation	n		\$

9. Certified Copy

(New Application Transmittal [4-1]-page 6 of 11)

C. L		Plant application \$480.00—37 C.F.	R & 1.16(a))		
	,		Filing fee calculation		\$
11. Sn	nail	Entity Statemen			
		Statement(s) that t s (are) attached.	this is a filing by a sma	all entity under 37	C.F.R. § 1.9 and 1.27
WARNI	NG:	the status is available affect any other appindirectly dependent refiling of an applicate a continued prosecute a new determination application. A nonpressible of a prior apparability of a prior application or in the reference to the state statement in the payment desired. The payment	e and desired. Status as a solication or patent, includir upon the application or pateion under § 1.53 as a continution application under § 1.5 as to continued entitlement ovisional application claimin patent if the nonprovisional tement in the prior application or in the patein application application or in the patein application application or in the patein application application application or in the patein application appl	small entity in one applications or pa ent in which the statu- muation, division, or co 3(d)), or the filing of a to small entity status ig benefit under 35 U cation may rely on a diapplication or the re- lation or in the patent int and status as a sin stutory filing fee will be	plication or patent in which polication or patent does not itents which are directly or is has been established. The intinuation-in-part (including reissue application requires for the continuing or reissue is.C. § 119(e), 120, 121, or statement filed in the prior issue application includes a tor includes a copy of the nall entity is still proper and a treated as such a reference
WARNII	NG:		nake the required self-certif		s signing the : statement 509.03, 6th ed., rev. 2, July
		(co	mplete the following,	if applicable)	
] §	Status as a small	entity was claimed in	prior application	
	- ie				_, from which benefit
		35 U.S.C. § 🗆	or this application und 119(e), 120, 121, 365(c),	jei.	
		and which status	as a small entity is s	still proper and d	esired.
		☐ A copy of the	e statement in the pri	or application is	included.
		Filing Fee Cald	culation (50% of A, B	or C above)	
			\$		
	are f	excess of the full fee p filed within 2 months ndable under § 1.136	paid will be refunded if small of the date of timely payn . 37 C.F.R. § 1.28(a).	entitiy status is estab nent of a full fee. The	lished and a refund request e two-month period is not
2. Red	que	st for Internation	nal-Type Search (37	C.F.R. § 1.104(d))
			(complete, if applic	cable)	
			nternational-type seam		application at the time

10. 1			nent being wade at This Time	
	X	Not	Enclosed	
		Z,	No filing fee is to be paid at this time. (This and the surcharge required by 37 C.F.R. § subsequently.)	1.16(e) can be paic
		Enc	losed	
			Filing fee	\$
			Recording assignment (\$40.00; 37 C.F.R. § 1.21(h)) (See attached "COVER SHEET FOR ASSIGNMENT ACCOMPANYING NEW APPLICATION".)	· \$
			Petition fee for filing by other than all the inventors or person on behalf of the inventor where inventor refused to sign or cannot be reached (\$130.00; 37 C.F.R. §§ 1.47 and 1.17(i))	\$
				Ψ
			specification in a non-English language (\$130.00; 37 C.F.R. §§ 1.52(d) and 1.17(k))	\$
			Processing and retention fee (\$130.00; 37 C.F.R. §§ 1.53(d) and 1.21(l))	\$
			Fee for international-type search report (\$40.00; 37 C.F.R. § 1.21(e))	\$
NOTE:	fail 37 eitl	ing to C.F.F her th	R. § 1.21(I) establishes a fee for processing and retaining any appliance complete the application pursuant to 37 C.F.R. § 1.53(f) and this s. §§ 1.53 and 1.78(a)(1), indicate that in order to obtain the benefice basic filing fee must be paid, or the processing and retention fewer from notification under § 53(f).	s, as well as the changes to it of a prior U.S. application.
			Total fees enclosed	\$
14. M	ethe	od o	f Payment of Fees	
[] .	Attac	ched is a	\$
] .	Auth	orization is hereby made to charge the amount of \$	S
	l		to Deposit Account No	
	1		to Credit card as shown on the attached credit card tion form PTO-2038.	information authoriza-
WARNI	NG:	Cred	dit card information should not be included on this form as it ma	y become public.
) (i	Char in the	ge any additional fees required by this paper or cree manner authorized above.	edit any overpayment
		/	A duplicate of this paper is attached.	

15. Authorization to Charge Additional Fees WARNING: If no fees are to be paid on filing, the following items should not be completed. WARNING: Accurately count claims, especially multiple dependent claims, to avoid unexpected high charges, if extra claim charges are authorized. The Office is hereby authorized to charge, in the manner shown above, the following additional fees that may be required by this paper and during the entire pendency of this application. ☐ 37 C.F.R. § 1.16(a), (f) or (g) (filing fees) 37 C.F.R. § 1.16(b), (c) and (d) (presentation of extra claims) NOTE: Because additional fees for excess or multiple dependent claims not paid on filing or on later presentation must only be paid or these claims cancelled by amendment prior to the expiration of the time period set for response by the PTO in any notice of fee deficiency (37 C.F.R. § 1.16(d)), it might be best not to authorize the PTO to charge additional claim fees, except possibly when dealing with amendments after final action. ☐ 37 C.F.R. § 1.16(e) (surcharge for filing the basic filing fee and/or declaration on a date later than the filing date of the application) 37 C.F.R. § 1.17(a)(1)-(5) (extension fees pursuant to § 1.136(a)). ☐ 37 C.F.R. § 1.17 (application processing fees) NOTE: ". . . A written request may be submitted in an application that is an authorization to treat any concurrent or future reply, requiring a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for extension of time for the appropriate length of time. An authorization to charge all required fees, fees under § 1.17, or all required extension of time fees will be treated as a constructive petition for an extension of time in any concurrent or future reply requiring a petition for an extension of time under this paragraph for its timely submission. Submission of the fee set forth in § 1.17(a) will also be treated as a constructive petition for an extension of time in any concurrent reply requiring a petition for an extension of time under this paragraph for its timely submission." 37 C.F.R. § 1.136(a)(3). ☐ 37 C.F.R. § 1.18 (issue fee at or before mailing of Notice of Allowance, pursuant to 37 C.F.R. § 1.311(b)) NOTE: Where an authorization to charge the issue fee to a deposit account has been filed before the mailing of mailing the notice of allowance. 37 C.F.R. § 1.311(b).

of a Notice of Allowance, the issue fee will be automatically charged to the deposit account at the time

NOTE: 37 C.F.R. § 1.28(b) requires "Notification of any change in status resulting in loss of entitlement to small entity status must be filed in the application . . . prior to paying, or at the time of paying, . . . the issue fee. . . " From the wording of 37 C.F.R. § 1.28(b), (a) notification of change of status must be made even if the fee is paid as "other than a small entity" and (b) no notification is required if the change is to another small entity.

(New Application Transmittal [4-1]-page 9 of 11)

16. Instructions as to Overpayment

NOTE: " Amounts of twenty-five dollars or less will not be returned unless specifically requested within a reasonable time, nor will the payer be notified of such amounts; amounts over twenty-five dollars mabe returned by check or, if requested, by credit to a deposit account." 37 C.F.R. § 1.26(a).
Credit Account No
☐ Refund

Reg. No. 31,391

Tel. No. (203 261-1234

Customer No. 004955

Tamis Moure
SIGNATURE OF PRACTITIONER

.

Francis J. Maguire

(type or print name of attorney)

WARE, FRESSOLA, VAN DER SLUYS & ADOLPHSON P.O. Address LLP

755 Main Street, PO Box 224

Monroe CT 06468
(New Application Transmittal [4-1]—page 10 of 11)

	incor	poration by reference of add d pages
	pi st th	heck the following item if the application in this transmittal claims the benefit of rior U.S. application(s) (including an international application entering the U.S. age as a continuation, divisional or C-I-P application) and complete and attach he ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF RIOR U.S. APPLICATION(S) CLAIMED)
		Plus Added Pages for New Application Transmittal Where Benefit of Prior U.S. Application(s) Claimed
		Number of pages added
		Plus Added Pages for Papers Referred to in Item 4 Above
		Number of pages added
		Plus added pages deleting names of inventor(s) named in prior application(s) who is/are no longer inventor(s) of the subject matter claimed in this application.
		Number of pages added
		Plus "Assignment Cover Letter Accompanying New Application"
		Number of pages added
X	State	ment Where No Further Pages Added
	(if thi	no further pages form a part of this Transmittal, then end this Transmittal with is page and check the following item)
	X	This transmittal ends with this page.